

WHAT IS CLAIMED IS:

1. A data reproduction transmission apparatus provided with;
a reproduction means for reproducing the video information coded
according to a predetermined information processing rule,
a supplying means for supplying the coded data or the decoded
data generated by decoding the above-mentioned coded data that includes
at least the above-mentioned video information,
a data restructuring means for restructuring the above-mentioned
coded data or the decoded data to the coded data that conforms to a
predetermined transmission format, and
an output means for supplying the above-mentioned restructured
coded data to a digital transmission medium.
2. The data reproduction transmission apparatus as claimed in
claim 1, wherein the above-mentioned data restructuring means
restructures the data according to a predetermined information processing
rule that is needed for the above-mentioned digital signal processing
equipment.
3. The data reproduction transmission apparatus as claimed in
claim 1, wherein the above-mentioned data restructuring means sends out
the data-restructured coded data that is acceptable for the above-
mentioned digital signal processing equipment only during the special
reproduction namely any one of static reproduction, fast forward
reproduction, and fast backward reproduction.

4. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed and decoded previously, the above-mentioned data restructuring means has;

a coding means for re-coding the data generated by decoding the above-mentioned coded data so that the re-coded data is acceptable for a digital signal processing apparatus, and

a multiplexing means for multiplexing the coded data coded by the above-mentioned coding means.

5. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed and decoded previously, the above-mentioned data restructuring means has;

a coding means for re-coding the decoded data generated by decoding the above-mentioned coded data to the data that is acceptable for a digital signal processing apparatus,

a delay means for delaying the above-mentioned multiplexed coded data, and

a selection means that is controlled so as to select the output of the above-mentioned delay means during the normal reproduction and so as to select the output of the above-mentioned coding means during the special reproduction.

6. The data reproduction transmission apparatus as claimed in claim 5, wherein the above-mentioned data reproduction transmission

apparatus has a multiplexing means for multiplexing the coded data supplied from the above-mentioned selection means.

7. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed and decoded previously, the above-mentioned data restructuring means has;

a coding means for re-coding the decoded data generated by decoding the above-mentioned coded data to the data that is acceptable for a digital signal processing equipment,

a multiplexing means for multiplexing the coded data coded by means of the above-mentioned coding means,

a delay means for delaying the coded data that is not yet multiplexed, and

a selection means that is controlled so as to select the output of the above-mentioned delay means during the normal reproduction, and so as to select the output of the above-mentioned multiplexing means during the special reproduction.

8. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed previously, the above-mentioned data restructuring means has;

an image extraction means for extracting the intra picture from the multiplexed coded data,

an image interpolation means for interpolating B picture or P

picture between intra pictures extracted by the above-mentioned image extraction means, and

a selection means that is controlled so as to select the output of the above-mentioned multiplexed coded data during the normal reproduction, and so as to select the output of the above-mentioned image interpolation means during the special reproduction.

9. The data reproduction transmission apparatus as claimed in claim 8, wherein a multiplexing means for multiplexing the coded data supplied from the above-mentioned selection means is provided.

10. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed and decoded previously, the above-mentioned data restructuring means has;

a coding means for re-coding the data generated by decoding the above-mentioned coded data so that the re-coded data is acceptable for a digital signal processing apparatus,

an image interpolation means for interpolating B picture or P picture between intra pictures coded by the above-mentioned coding means, and

a selection means that is controlled so as to select the above-mentioned multiplexed coded data during the normal reproduction, and so as to select the output of the above-mentioned image interpolation means during the special reproduction.

11. The data reproduction transmission apparatus as claimed in claim 10, wherein a multiplexing means for multiplexing the coded data supplied from the above-mentioned selection means is provided.

12. The data reproduction transmission apparatus as claimed in claim 1, wherein, in the case that the coded data that includes the above-mentioned video information is multiplexed previously, the above-mentioned data restructuring means has;

a data generation means for generating "0" stuff that constitutes the coded data acceptable for a digital signal processing equipment, and

a selection means that is controlled so as to select the above-mentioned multiplexed coded data during the normal reproduction, and so as to select the output of the above-mentioned data generation means during the special reproduction.

13. The data reproduction transmission apparatus as claimed in claim 12, wherein a multiplexing means for multiplexing the coded data supplied from the above-mentioned selection means is provided.

14. The data reproduction transmission apparatus as claimed in claim 1, wherein the above-mentioned data restructuring means has;

a data generation means for generating the dummy packet information or DIT information that constitutes the coded data acceptable for a digital signal processing equipment, and

a selection means that is controlled so as to select the above-mentioned multiplexed coded data during the normal reproduction, and so

as to select the output of the above-mentioned data generation means during the special reproduction.

15. The data reproduction transmission apparatus as claimed in claim 1, wherein a data conversion means for converting the above-mentioned decoded data to the video and audio information acceptable for an analog signal processing equipment.

16. A data reproduction transmission method comprising;
a reproduction step for reproducing the video information coded according to a predetermined information processing rule,
a supplying step for supplying the coded data or the decoded data generated by decoding the above-mentioned coded data that includes at least the above-mentioned video information,
a data restructuring step for restructuring the above-mentioned coded data or the decoded data to the coded data that conforms to a predetermined transmission format, and
an output step for supplying the above-mentioned restructured coded data to a digital transmission medium.

17. The data reproduction transmission method as claimed in claim 16, wherein;

the above-mentioned coded data that includes the above-mentioned video information is decoded, and
the above-mentioned decoded digital data is restructured to the coded data that is acceptable for a digital signal processing equipment.